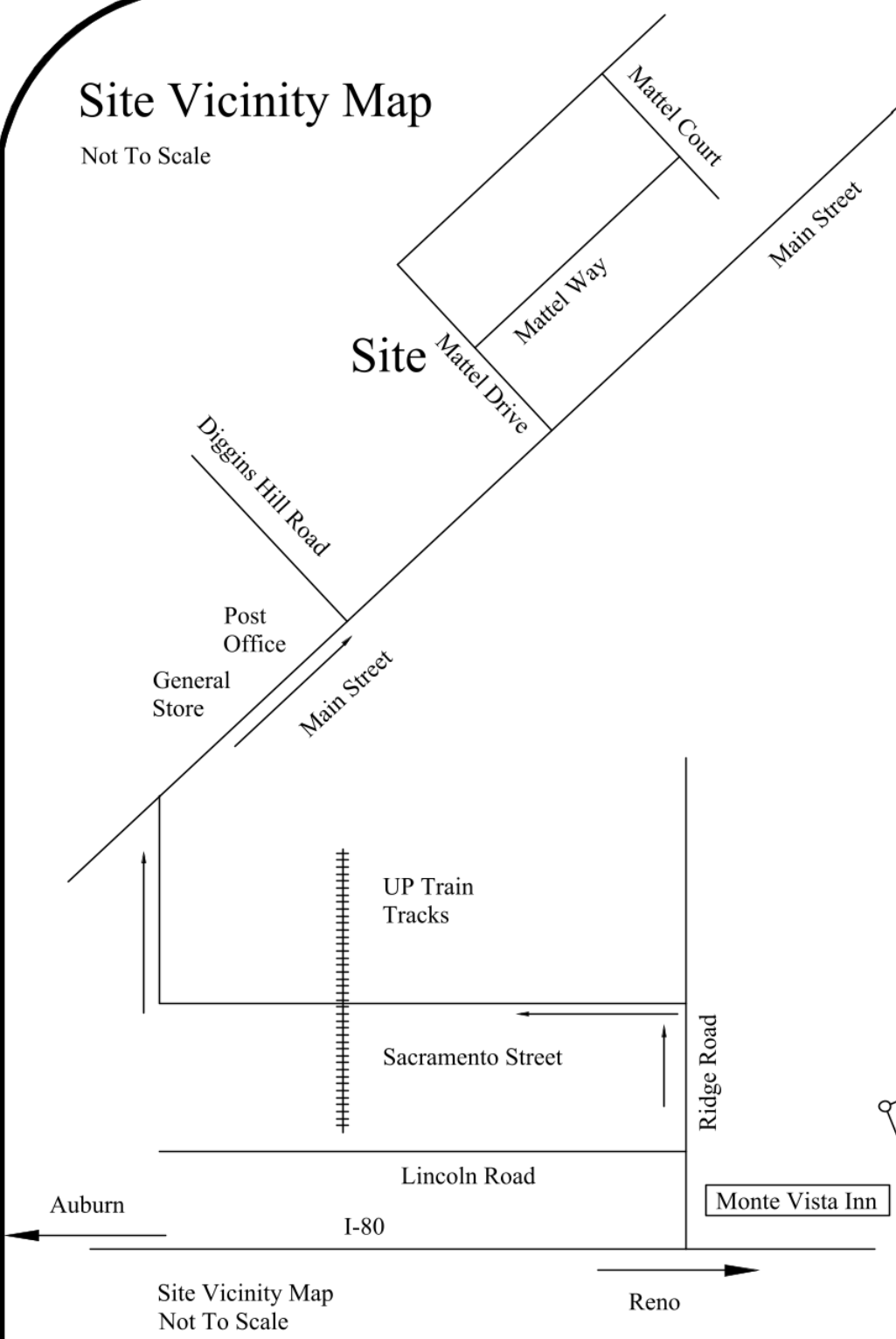


Site Vicinity Map

Not To Scale



Drawing Index

- Sht 1: Cover Sheet, Plot Map
Sht 2: Floor & Fnd Plan, Elevations
Sht 3: Fnd, Roof & Wall Framing
Sht 4: S-1 Typical Structural
Sht 5: S-2 Structural Details
Sht 6: S-3 General Notes

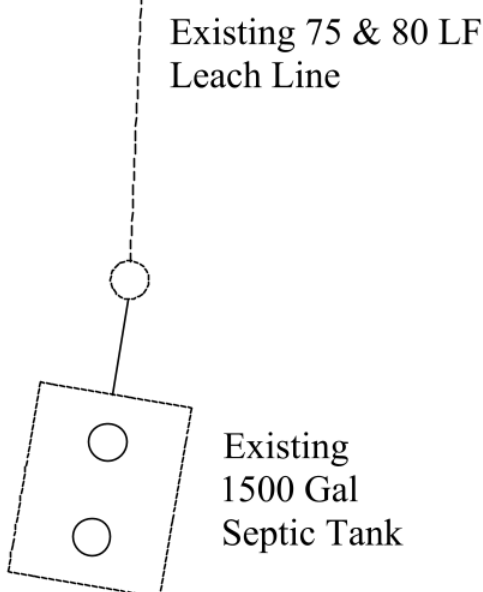
DESIGN CRITERIA	
Floor Live Load = 40 psf	
Roof Live Load = 30.3 psf	
Roof Snow Load:	
Ground snow load, P_g = 70 psf	
Flat-roof snow load, P_f = use psf	
Snow exposure factor, C_e = 0.9 (other)	
Thermal factor, C_t = 1.1 (Other)	
Wind Design speed:	
Basic wind speed (1-sec gust) = 95 mph	
Wind importance factor, I = 1.0	
Other () mph	
Wind exposure = C	
Earthquake design data:	
Seismic importance factor, I_s = 1.0	
Mapped spectral response accelerations:	
S_s = 0.6697	
S_1 = 0.2487	
Site Class D	
Spectral response coeff.:	
S_{DS} = 0.6	
S_{D1} = 0.3	
Governing Seismic Design Category, SDC = D	

WILDLAND URBAN INTERFACE
All exterior materials shall comply
with CRC R337 & CBC 7-A
Defensible space requirement shall be enforced

REQUIRED INSPECTION CHECKLIST
SHALL BE COMPLETED, SIGNED AND
GIVEN TO THE INSPECTOR AT THE
BEGINNING OF EACH INSPECTION.

Legend

- (N) U E (N) Underground Elect
#12 240v 2 circuits to (E)
Sub Panel In Pump House
- (N) L/P 125 Gallon Vertical
Propane Tank
DOT 3
4' Sq Conc Pad
- (E) R (E) Restroom
- F C P Flat Concrete Pad
- Slope →
- New
Instantaneous
Water Heater (N) INST
W/H



PROJECT DATA:

Occupancy Group(s):?	U	Sprinkled:	No
Type(s) of Construction:	VB	Risk Category:	II
Stories/Height:	One	Seismic Design	Category:D
Building Area:	280 sq. ft.	Valuation:	\$53,840
Occupant Load	:n/a		

Scope Of Work

The Construction Of A New Handicap Rest Room

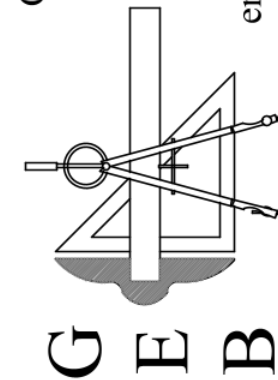
2019 California Building Code
2019 California Residential Code
2019 California Mechanical Code
2019 California Plumbing Code
2019 California Electrical Code
2019 California Green Building Standards
Are Applicable To This Project

COLOR REQUIRED.

REVIEWED
FOR
CODE COMPLIANCE
Nov 05, 2021
INTERWEST CONSULTING GROUP

Scale: 1 = 30
A.P.N. 062-082-022-000

Custom Home Design & Drafting
1545 Grass Valley Hwy #40
Passive Solar Design,
Title 24 Documentation
(530) 823-1304
email: ebernard2978@sbeglobal.net



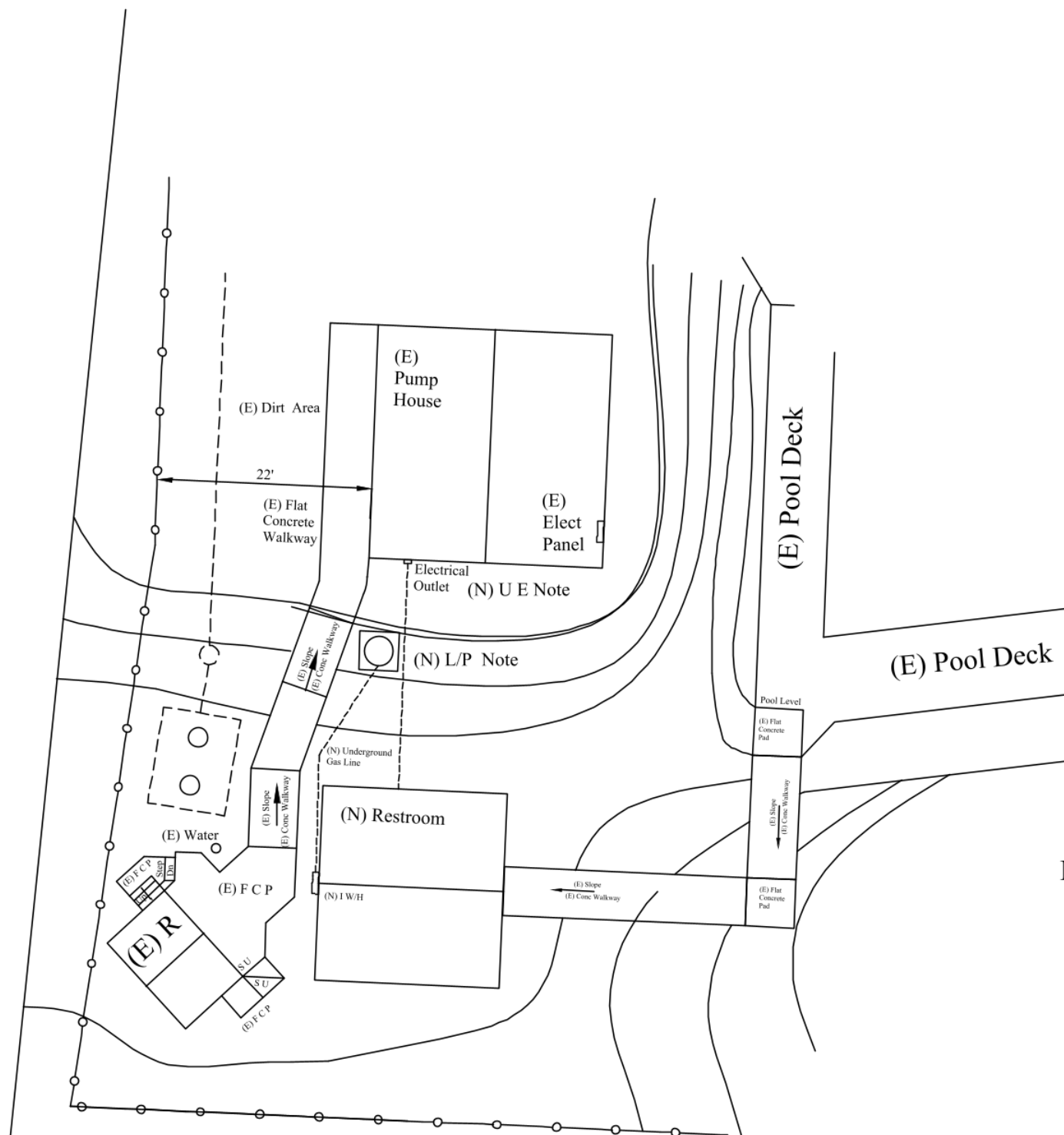
Dutch Flat Swimming Pool Restrooms
1045 Mattel Drive
Dutch Flat, CA
Placer County

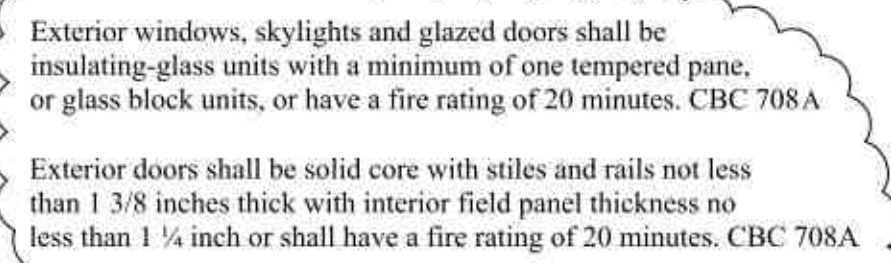
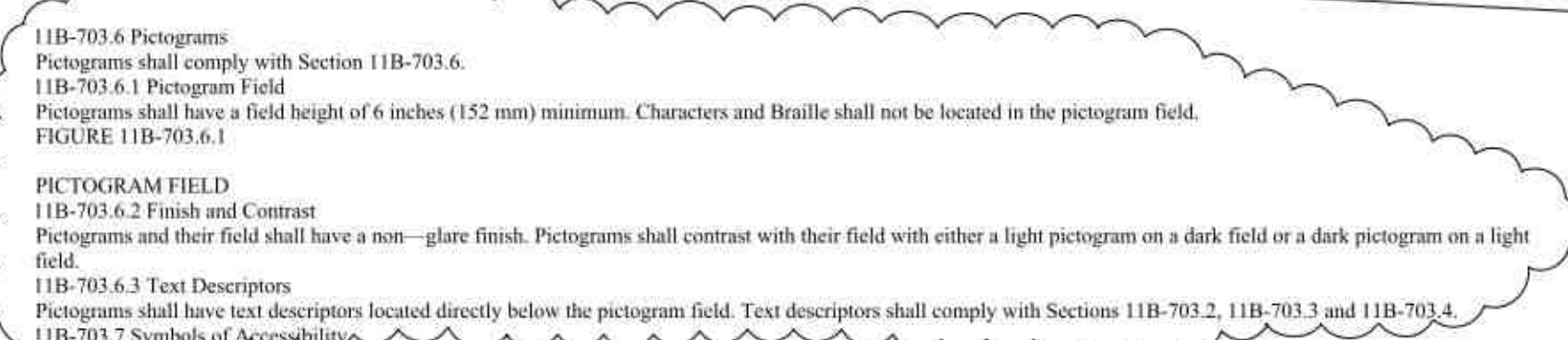
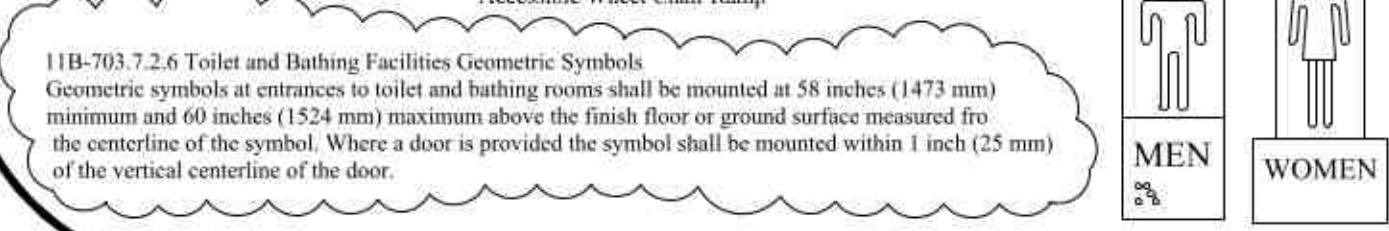
Drawn By
Ed Bernard
Checked By
Date
October 20, 2021
Scale
As Noted
Job Number
2021-10-1
2021-11-1
1 Sheet 6 Sheet

REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
☐ 2019 CALIFORNIA RESIDENTIAL CODE
☒ 2019 CALIFORNIA BUILDING CODE
☒ 2019 CALIFORNIA ELECTRICAL CODE
☒ 2019 CALIFORNIA PLUMBING CODE
☒ 2019 CALIFORNIA MECHANICAL CODE
☒ 2019 CALIFORNIA ENERGY CODE
☒ 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
☐ 2019 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
☐ 2019 CALIFORNIA FIRE CODE
☐ OTHER:
COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN
VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.
BY: Denise Reese DATE: Nov 05, 2021
INTERWEST CONSULTING GROUP

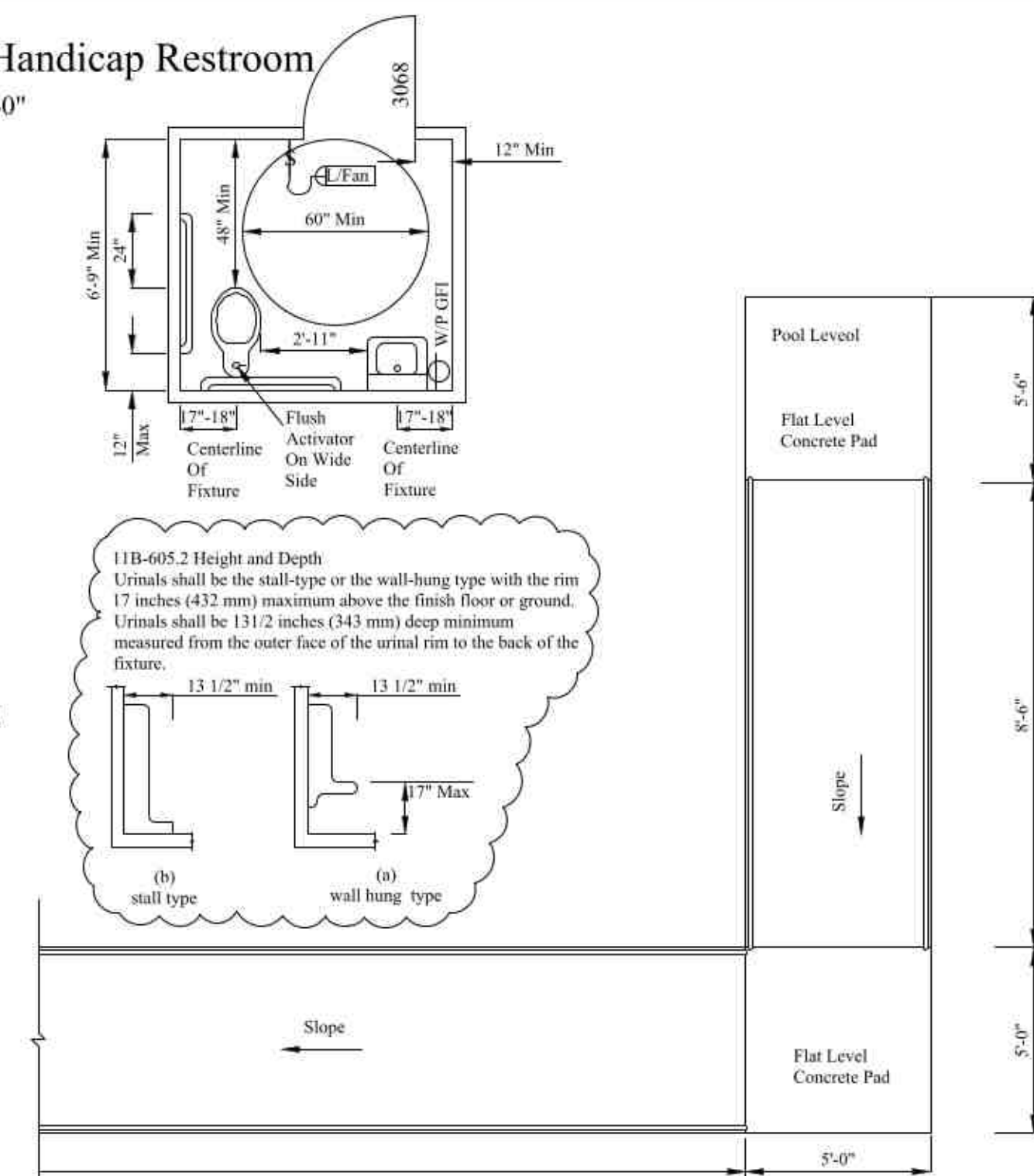
PLACER COUNTY REVIEW ACCEPTED
per CONSULTANT REVIEW
Nov082021
Permit # 21-03279
Plans and specifications shall not be changed without
REVIEW from the Building Services Division
ELECTRONIC SUBMITTAL

Enlarged Area Not To Scale



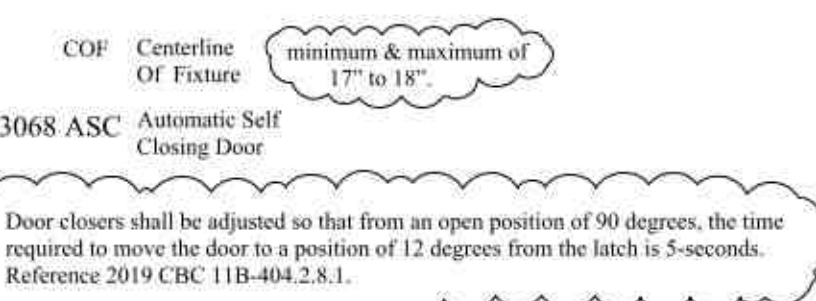
[illegible]

Scale: $\frac{1}{4}" = 1'-0"$

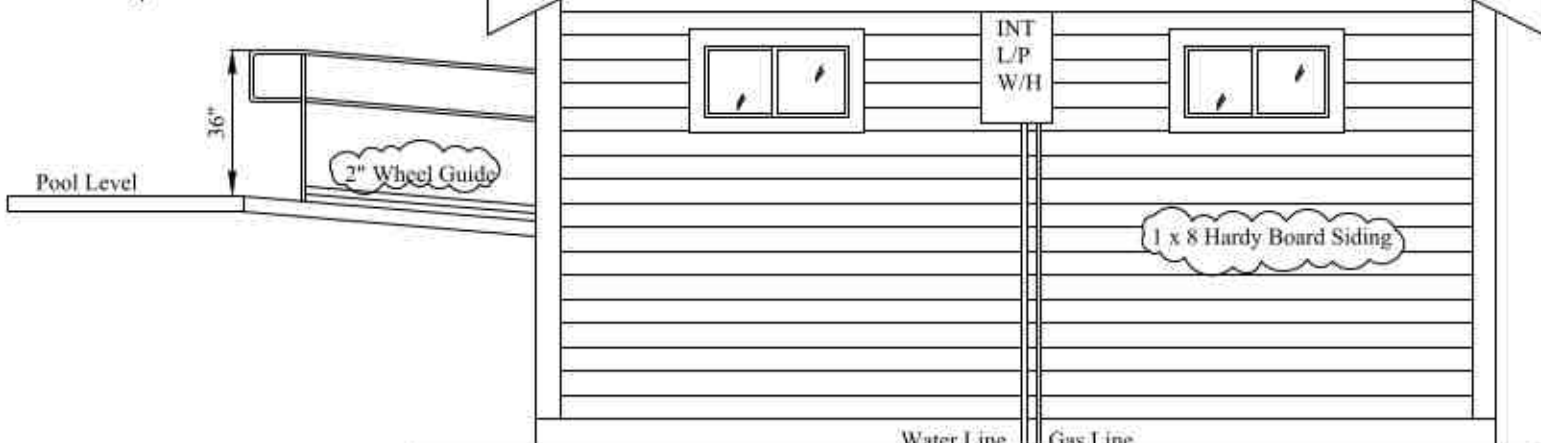


Scale: $\frac{1}{4}" = 1'$

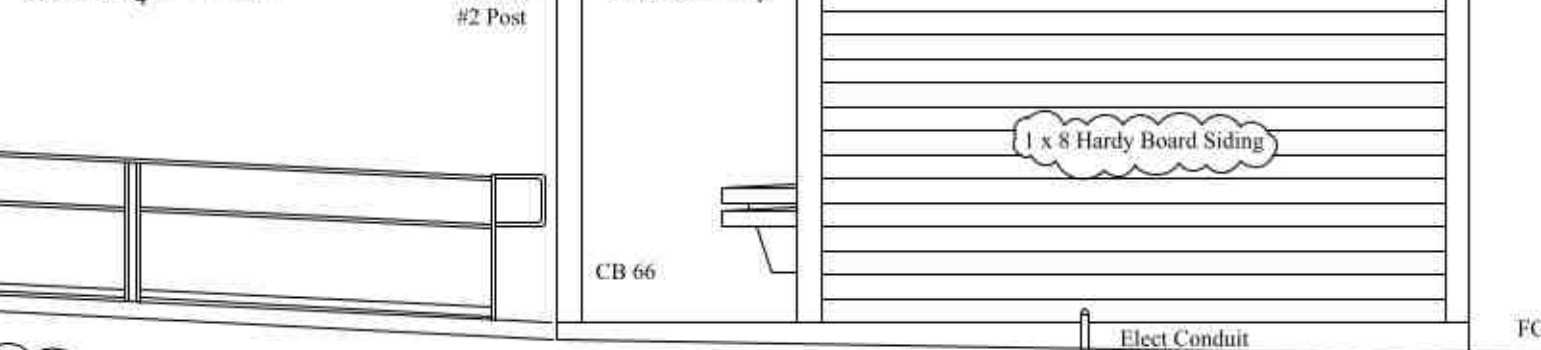
Building Area: 280 Sqft
Covered Entry: 100 "



Scale4: $\frac{1}{4}" = 1' - 0"$



Scale 4: $\frac{1}{4}" = 1' - 0"$



1210.2.1 Floors and Wall Bases: In other than dwelling units, toilet, bathing and shower floor finishes material shall have a smooth, hard, nonabsorbent surface. The intersections of such floors with wall shall have a smooth, hard, nonabsorbent, vertical base that extends upward onto the walls not less than 4 inches (102 mm).

1210.2.2 Walls and Partitions: Walls and partitions within 2 feet (610 mm) of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of not less than 4 ft (1219 mm) above the floor, and except for structural elements, the material used in such walls shall be of a type that is not adversely affected by moisture.

Exception: This section does not apply to the following building spaces:

- 1: Dwelling units and sleeping units.
- 2: Toilet rooms that are not accessible to the public and which have not more than one water closet.

Accessories such as grab bars, towel bars, paper dispensers and soap dishes, provided on or within walls, shall be installed and sealed to protect elements from moisture.

11B 608.5 Controls. Controls, faucets and shower spray units shall comply with Section 11B 309.4. Controls and faucets shall be of a single-lever design.

11B 603.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surfaces 34 inches Z(864 mm) above the finished floor.

11B 606.4 Faucets. Controls for faucets shall comply with Section 11B-309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

11B 606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

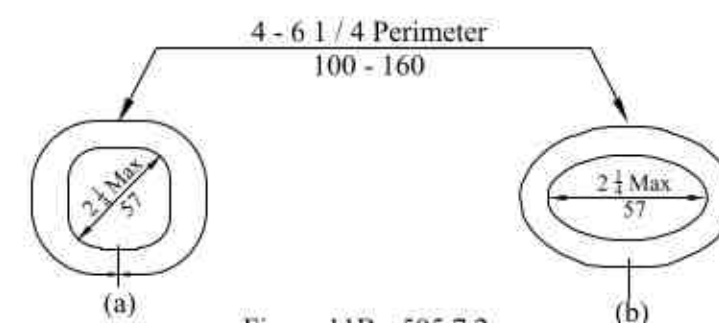
11B 606.6 Adjacent Side Wall or Partition.
Lavatories when located adjacent side wall or partition shall be minimum of 18 inches (457 mm) to the center of the fixture

11B 607.7 Where forward approach is required at a sink, knee and toe clearance shall be provided in compliance with Section 11B 306

11B-505.7 Cross Section. Handrail gripping surfaces shall have a cross section complying with 11B-505.7.1 or 11B-505.7.2.

11B-505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1¼ inches (31.8 mm) minimum and 2 inches (51 mm) maximum.

11B-505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (102 mm) minimum and 6¼ inches (159 mm) maximum, and a cross-section dimension of 2¼ inches (57 mm) maximum.



(a) Figure 11B - 505.7.2
Handrail Non-Circular Cross Section

11B-505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 11B-505.10.

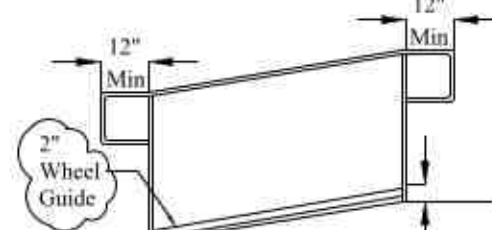
EXCEPTIONS:

1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
2. In assembly areas, extensions shall not be required for ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

11B-505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

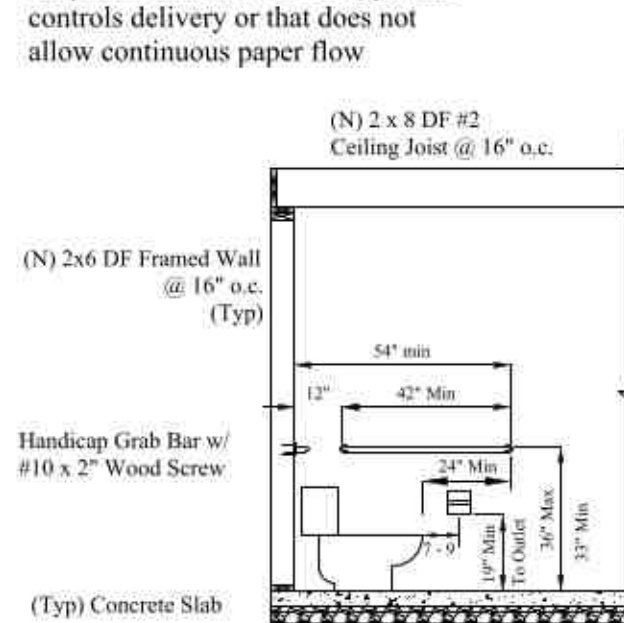
11B-703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is to be provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is to be provided at double doors with two active leaves, the sign shall be located to the right side of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (457mm) minimum by 18 inches (457mm) minimum, centered on the tactile characters is provided beyond the arc of any door swing between the closed position and 45 degree open position. *Where provided, signs identifying permanent rooms and spaces shall be located at the entrance to, and outside of the room or space .* *Where provided, signs identifying exits shall be located at the exit door when approached in the direction of egress travel.*

Exception: In alterations where sign installation locations identified in Section 11B-703.4.2 are obstructed or otherwise unavailable for sign installation, signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.



11B-609.4 Grab Bars
Grab bars shall be installed in a horizontal position, 33 inches (838 mm) minimum and 36" (914 mm) maximum above the finished floor measured to the top of the gripping surface.

11B - 604.7 Dispensers
Toilet paper dispensers shall comply with section 11B - 309.4 and shall be 7 inches (178 mm) minimum and 9 inches (mm) maximum in front of the water closet measured to the center of the dispenser.
The outlet of the dispenser shall be (below the grab bar 19 inches (483 mm) minimum above the finish floor) and shall not be located behind the grab bars.
Dispenser shall not be of a type that controls delivery or that does not allow continuous paper flow




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FOR
CODE COMPLIANCE
Nov 05, 2021
INTERWEST CONSULTING GROUP


11B 606.6 Adjacent Side Wall or Partition.
Lavatories when located adjacent side wall or partition shall be minimum of 18 inches (457 mm) to the center of the fixture

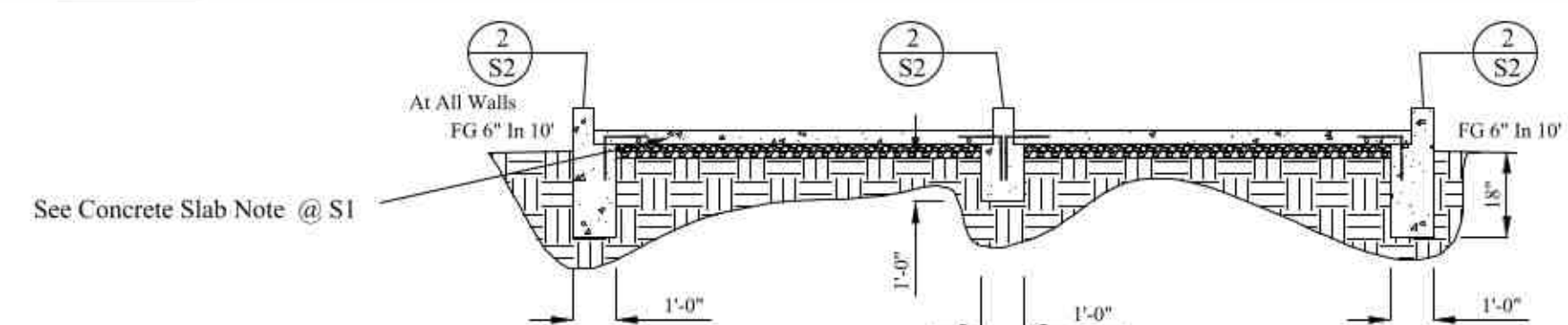
11B 607.7 Where forward approach is required at a sink, knee and toe clearance shall be provided in compliance with Section 11B 306



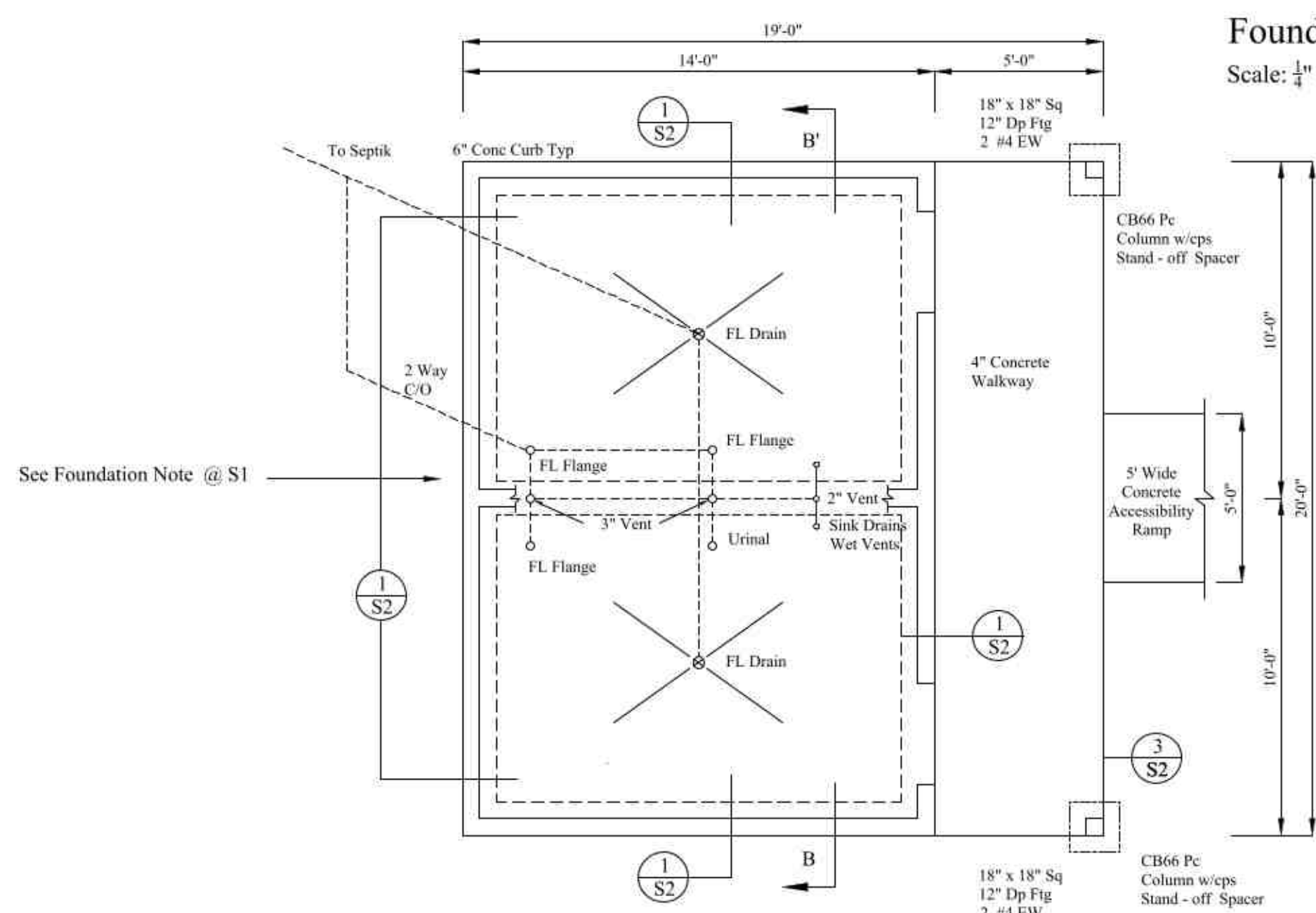
G E B

 Custom Home Design & Drafting
 Passive Solar Design,
 Title 24 Documentation
 (530) 823-1304
 email: ebarnard2978@sbcglobal.net

A New Accessible Restroom For Dutch
Flat Community Swimming Pool
1045 Matel
Dutch Flat, CA 95714

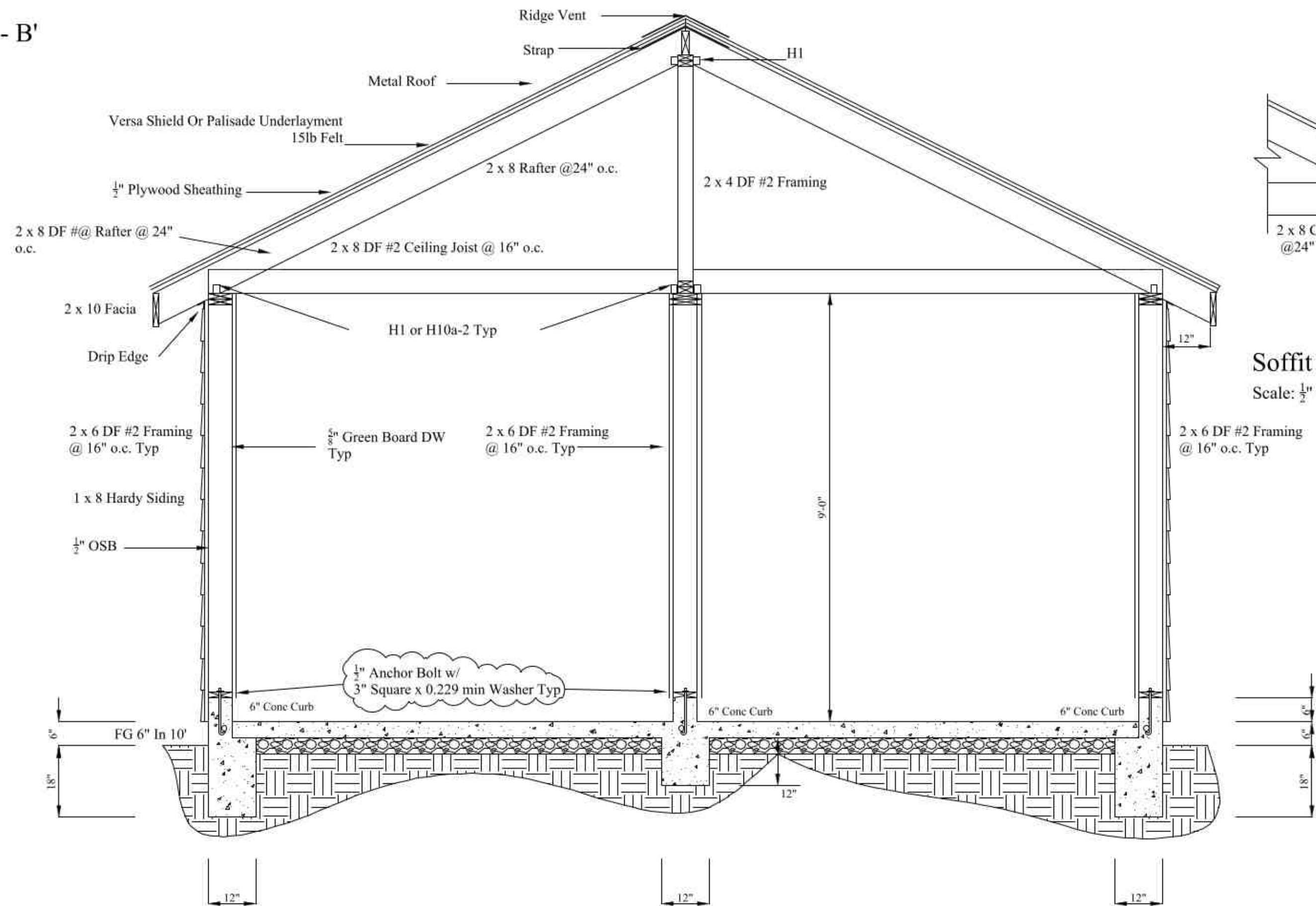
Drawn By <i>Ed Bernard</i>
Checked By <i>Mike Mutto</i>
Date October 20, 2021
Scale <i>As Noted</i>
Job Number <i>2021-10-1</i>
<div>  November 1, 2021 </div> <div> Sheet <div> <div>2</div> <div>Sheet</div> </div> <div> <div>6</div> <div>Sheet</div> </div> </div>



Foundation Cross Section B - B'
Scale: $\frac{1}{4}" = 1' - 0"$



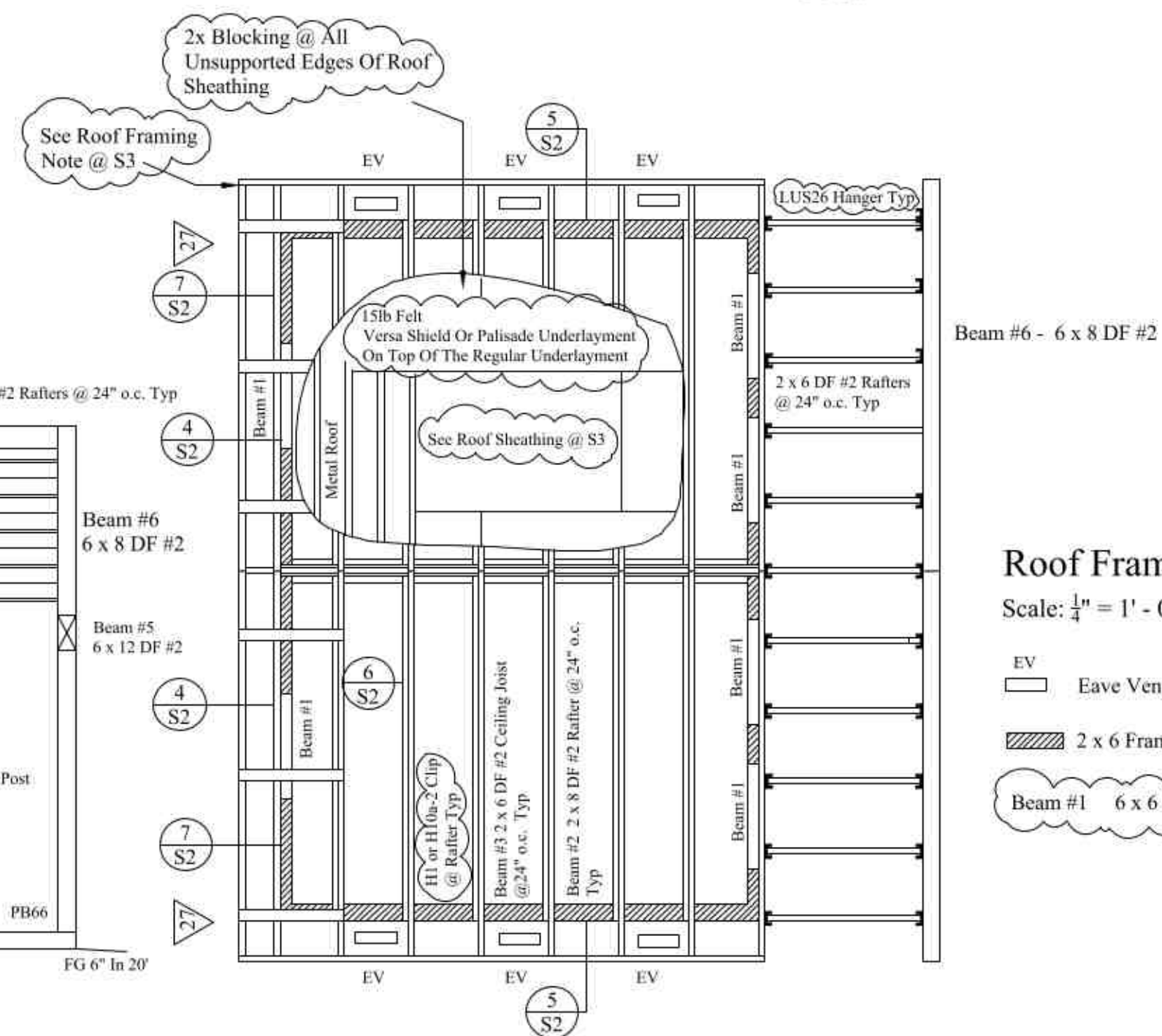
Foundation Plan
Scale: $\frac{1}{4}" = 1' - 0"$

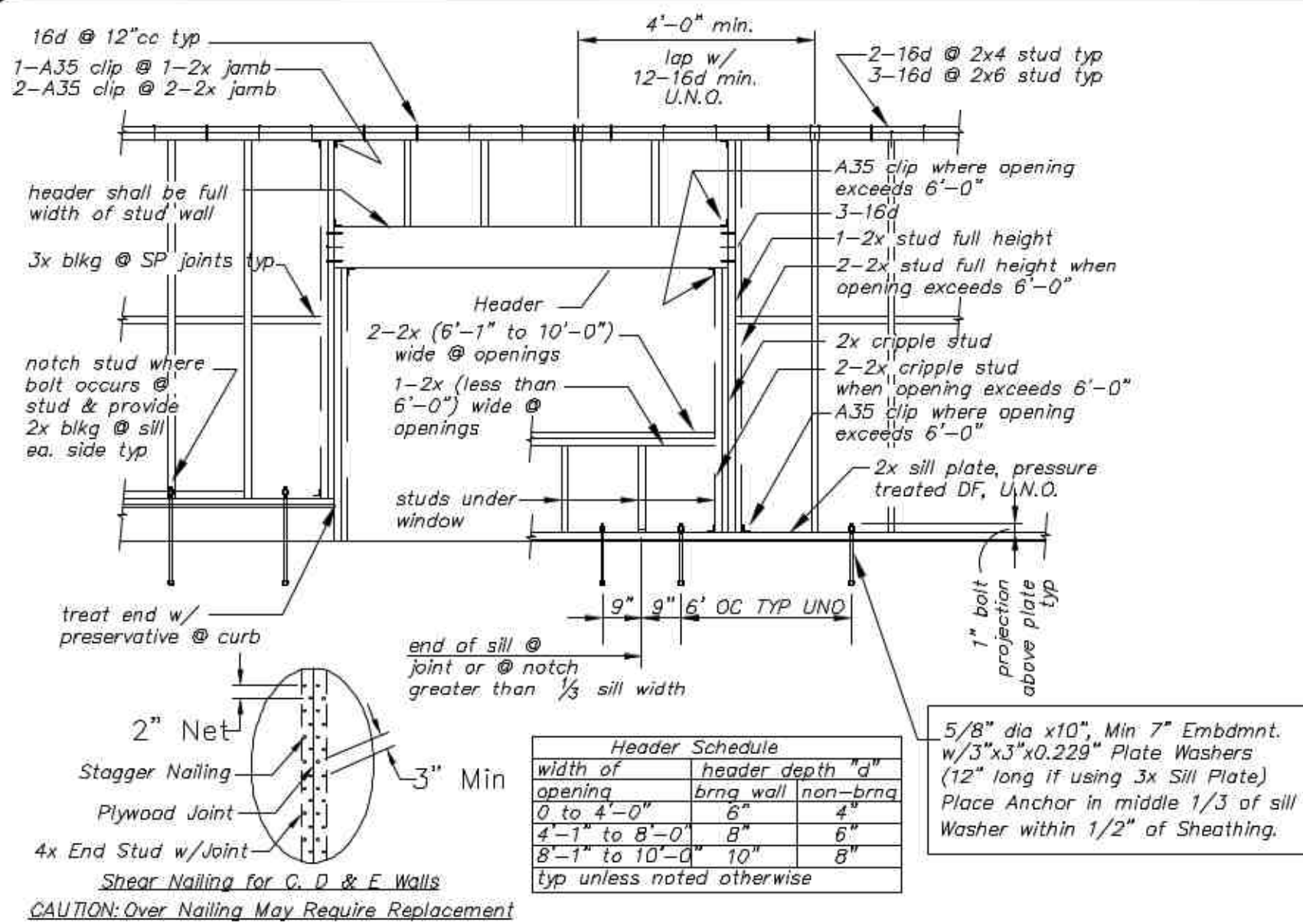


Soffit Detail For WUI
Scale: $\frac{1}{2}" = 1' - 0"$

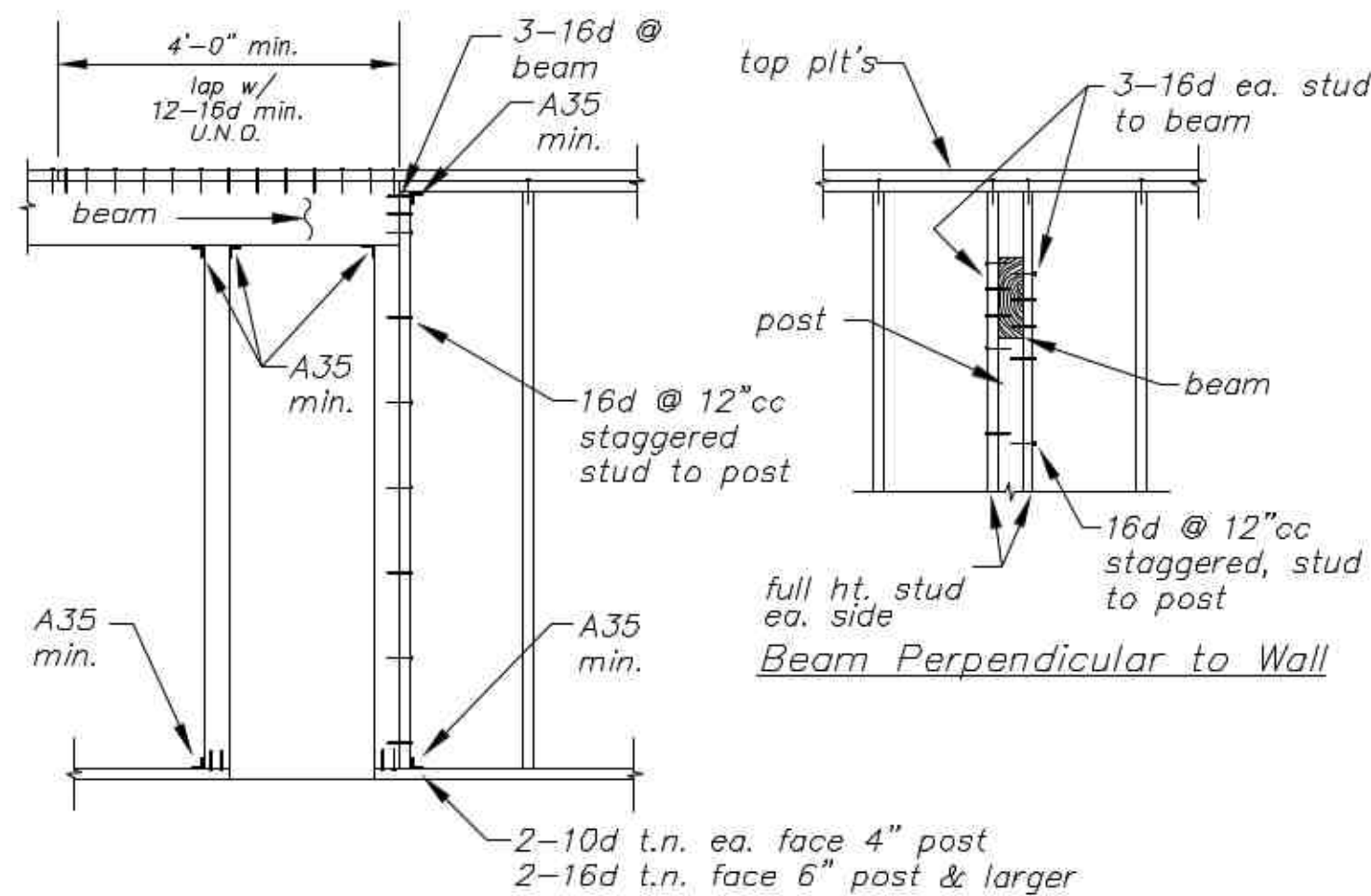


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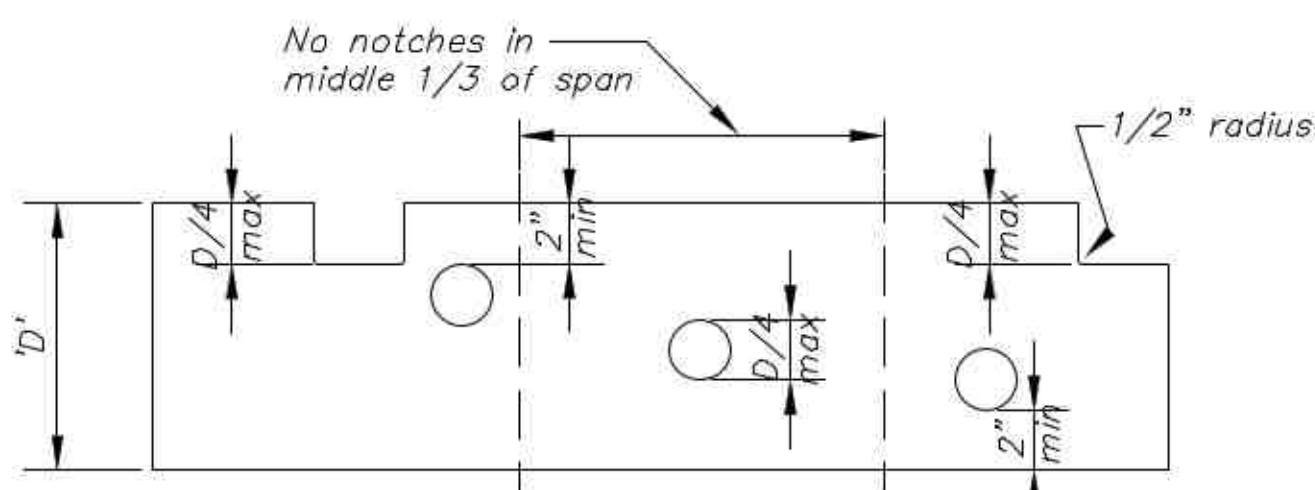


1 Typical Stud Wall Framing



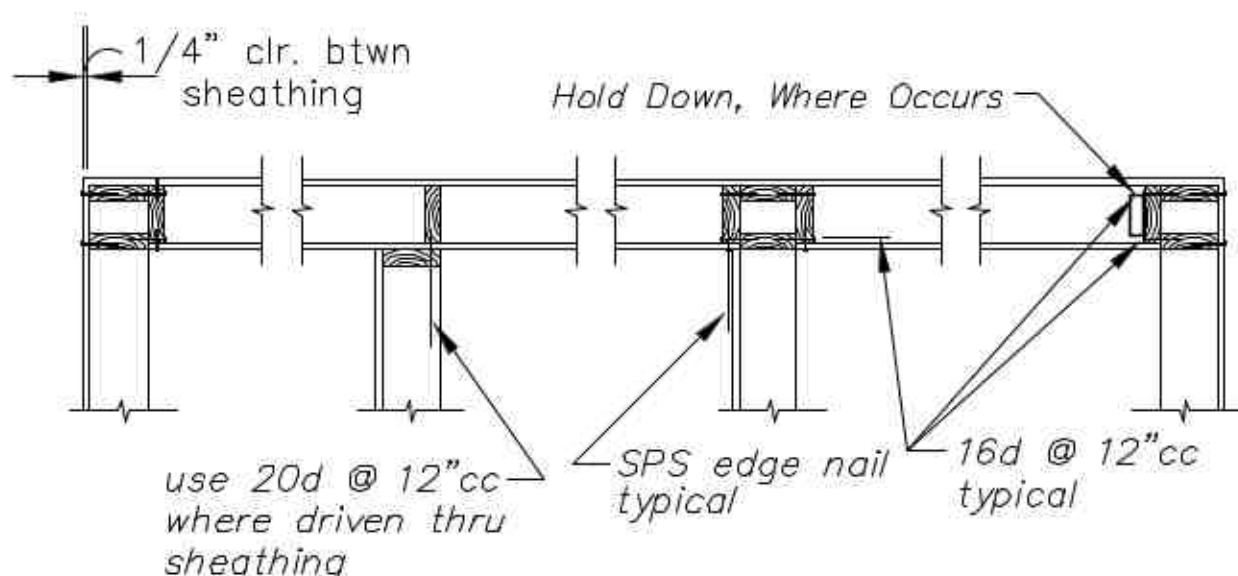
Beam Parallel to Wall

2 Post & Beam Connections



- Notes:
- Predrill corners of notches so as not over cut.
 - Notches on ends of joists & headers shall not exceed 1/4 the joist depth.
 - Notches in the top of joists shall not exceed 1/4 the depth and shall not be located in the middle third of the span.
 - Notches on the bottom of joist allowed only where specifically shown on drawings.
 - Holes bored in joists shall not be within 2 inches of the top or bottom and shall not have a diameter larger than the 1/4 depth of the joist.

3 Notches & Holes in Joists & Headers



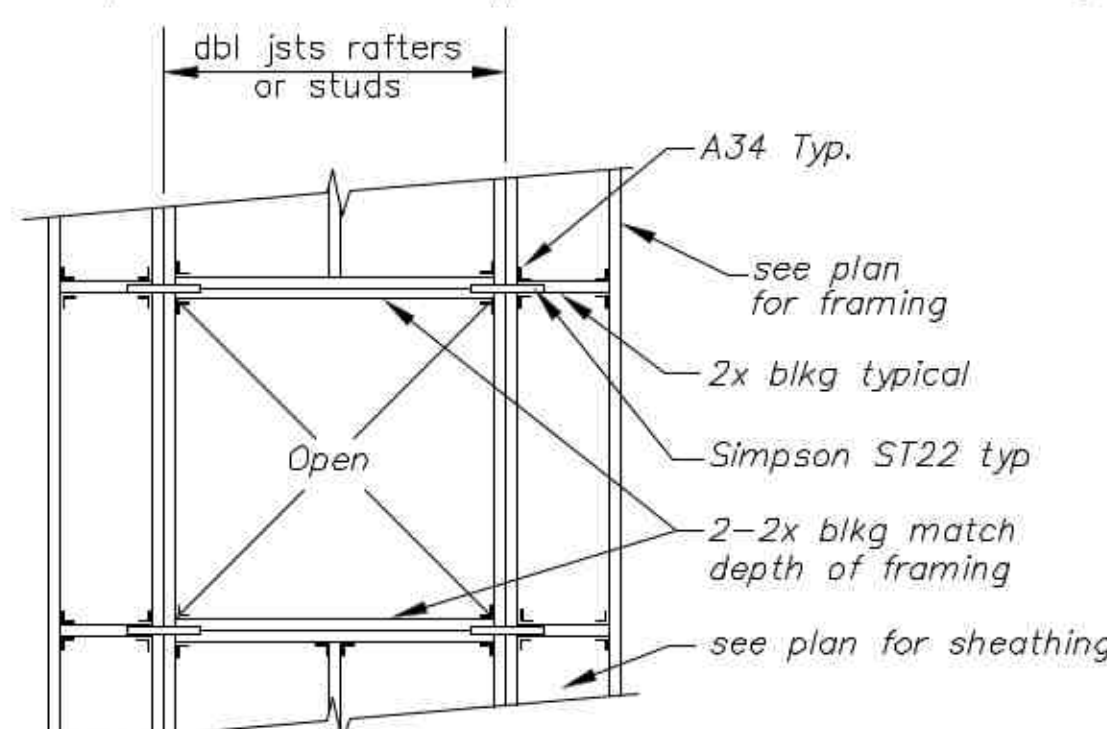
4 Typical Stud Framing at Corners

Wood

- All structural wood shall conform with the following specification:
Douglas Fir - Coast Region - WCLB grading rules #17 DF #1, except 2x4 and 2x6 wall studs, plates, and blocking may be DF #2.
Redwood - California Redwood Association Grading Rules, latest edition.
Glued Laminated Beams - Standard Spec. for Structural Glued Laminated Timber AITC 117 latest edition. Submit shop drawings prior to fabrication of glued-laminated members.
Plywood - U.S. Product Standard P.S. 2-92 for soft plywood Struct 1 @ walls; CDX @ floors and roof - U.N.O.
Pressure Treated Douglas Fir - 2019 CBC Standard No. 2303-3.
All wood in direct contact with earth or concrete shall be pressure treated.
Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with 2-16d nails. Splice upper and lower plates as in Detail 1 on Typical Detail sheet.
- Provide solid blocking, or rim board between joists and rafters at all supports.
- Provide blocking at all ceiling levels.
- Joists under and parallel to partitions shall be doubled and nailed together.
- Holes for bolts in wood shall be bored with a bit of the same nominal diameter as the bolt plus 1/16".
- Holes for lag screw shall be first bored to the same diameter and depth as the shank and the rest no larger than the root of the thread.
- Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate the screws.
- All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red Head, etc.

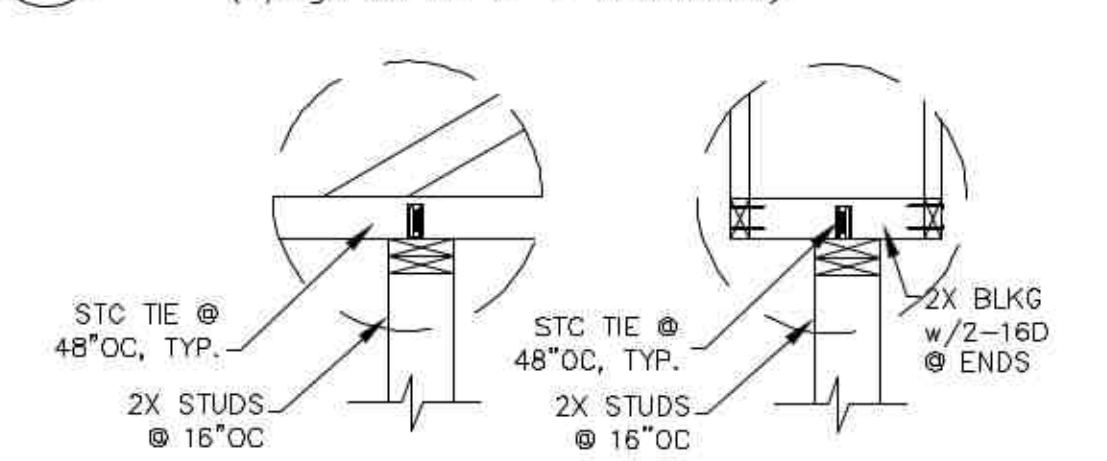
Bolt Diameter	ML Washer	Steel Washer
1/2"	2" dia x 1/4"	2"x2"x 3/16"
5/8"	3" dia x 1/4"	3"x3"x 1/4"
3/4"	3 1/2" dia x 5/16"	3 1/2"x3 1/2"x 1/4"
1"	4" dia x 5/16"	3 1/2"x3 1/2"x 1/4"

- All bolts and lag screws shall be tightened on installation and retightened before closing in or at completion of job.
- Lay all structural plywood on roof and floors with face grain perpendicular to support unless noted otherwise.
- Block SP joints with 2x4 flat blocking where noted on roof or floor framing plans and with blocking same as studs at walls. Use clips at midspan of unsupported plywood edges.
- Connector hardware model number are those for Simpson Strong-Tie Company. Equivalent connectors with ICC acceptance may be substituted. All joist hangers shall be Simpson U series unless noted otherwise.
- Notify Structural Engineer after wall, floor, and roof SP nailing has been completed and a minimum of 48 hours prior to concealing SP.
- Cutting and notching of exterior walls and bearing partitions shall not exceed 25 percent of the stud width.
- Cutting and notching of non-bearing partitions supporting no loads other than the weight of the partition shall not exceed 40 percent of the stud width.
- A bored hole not greater than 40 percent of the stud width may be bored in any wood stud.
- Bored holes not greater than 60 percent of the width of the stud are permitted in non-bearing partitions and in any wall where each bored stud is doubled, provided not more than two successive double studs are so bored.
- Wood exposed to weather shall be approved wood of natural resistance to decay or treated wood.



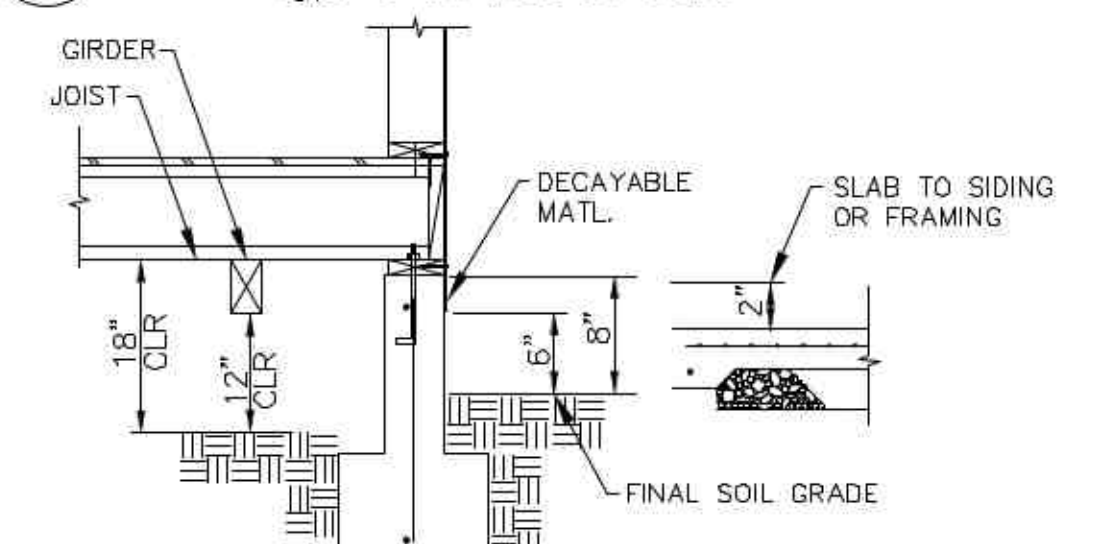
Typical Opening in Roof or Wall Plywood Diaphragm

(opngs to be 4'-0" maximum)



6 Typ Non-Brg Truss to Wall

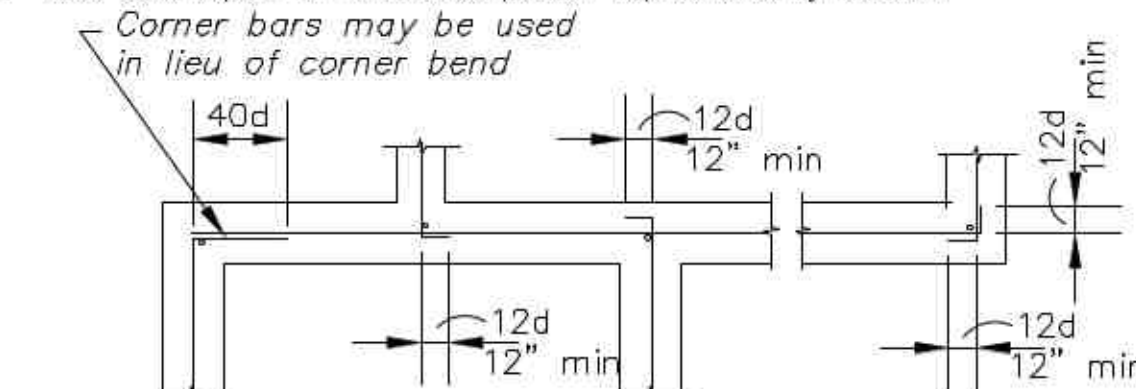
Typ. @ all Interior Walls



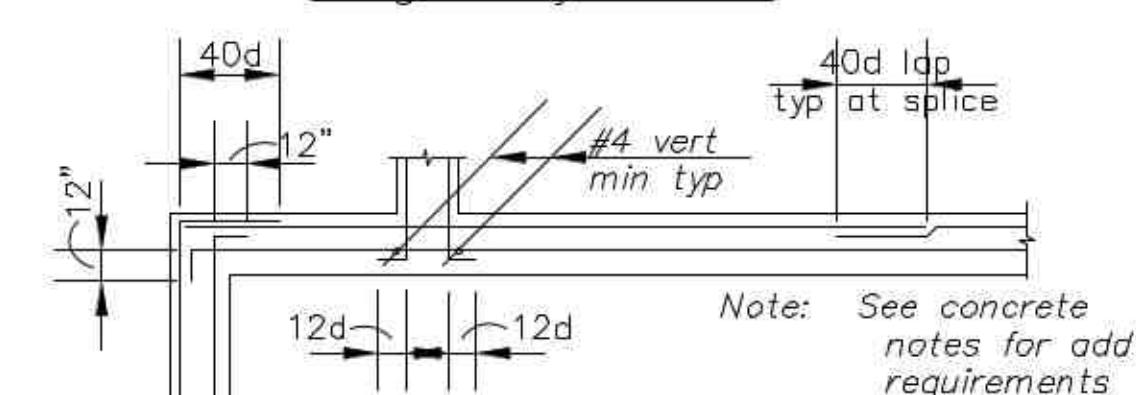
7 Typ Wood Clearances

Foundations

- All foundation work shall be done in accordance with the requirements of the 2019 CBC.
- Bottoms of all foundations shall be level. Changes in bottom of foundation elevation shall be made according to stepped footing Detail 11.
- All pile caps, grade beams, tie beams & other footings shall be formed unless specifically approved by the Structural Designer.
- Vapor barriers under slabs shall conform with ASTM E-1745, 10 Mil for residential slabs. 15 Mil for commercial slabs or residential slabs where heavy placing equipment is used.
- Control joints in slab shall be placed at 24' min in each direction & at re-entrant corners.
- Engineered fill is preferred to be AB-3/4 (self-compacting) per ASTM C 136 or D 422. Local fill is to be homogenous mixture of soil and rock free of vegetation, organic material, rubbish and/or rubble. Material shall be compacted per ASTM D-1557 in 8" lifts to 90% (up to 3' only), and 95% above 3'. Local fill to be verified by Engineer for expansive soil, and rock size issues.
- Read Soils Report for various compaction requirements by location.

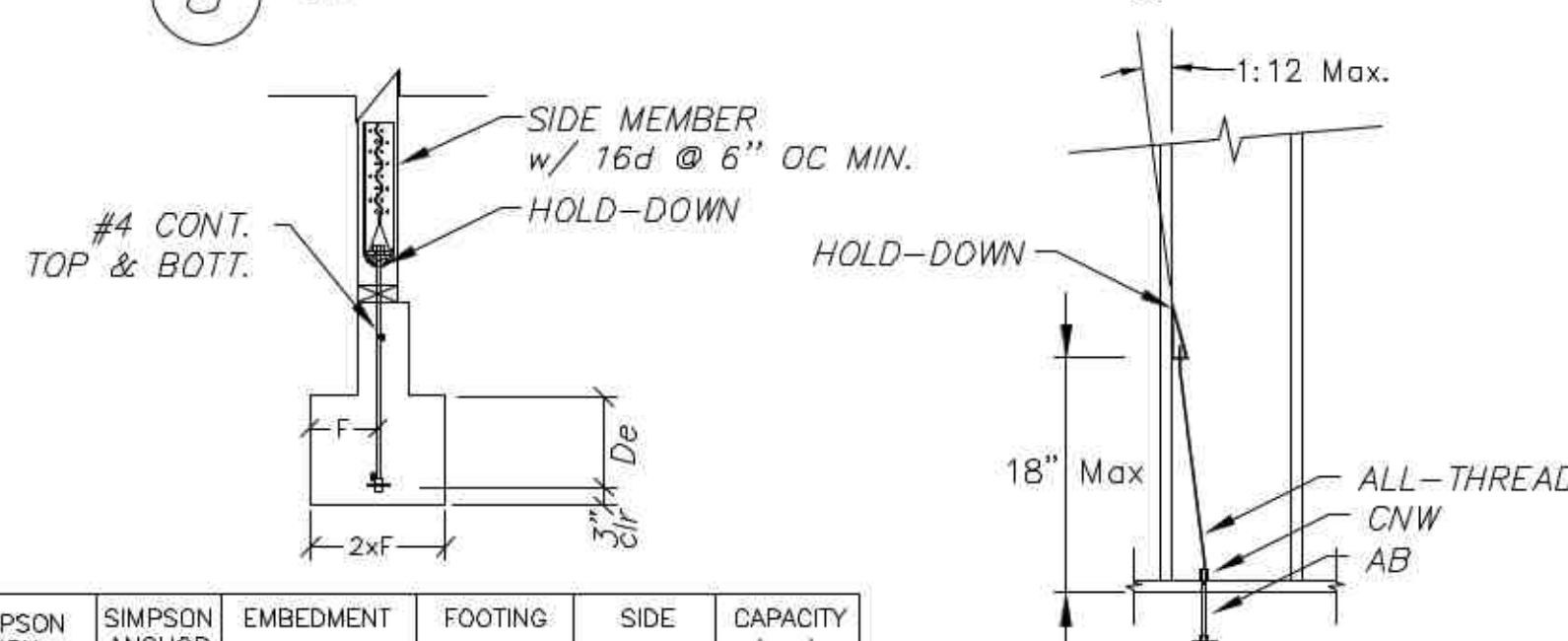


Single Layer Bars



Double Layer Bars

8 Typical Corner Reinforcing

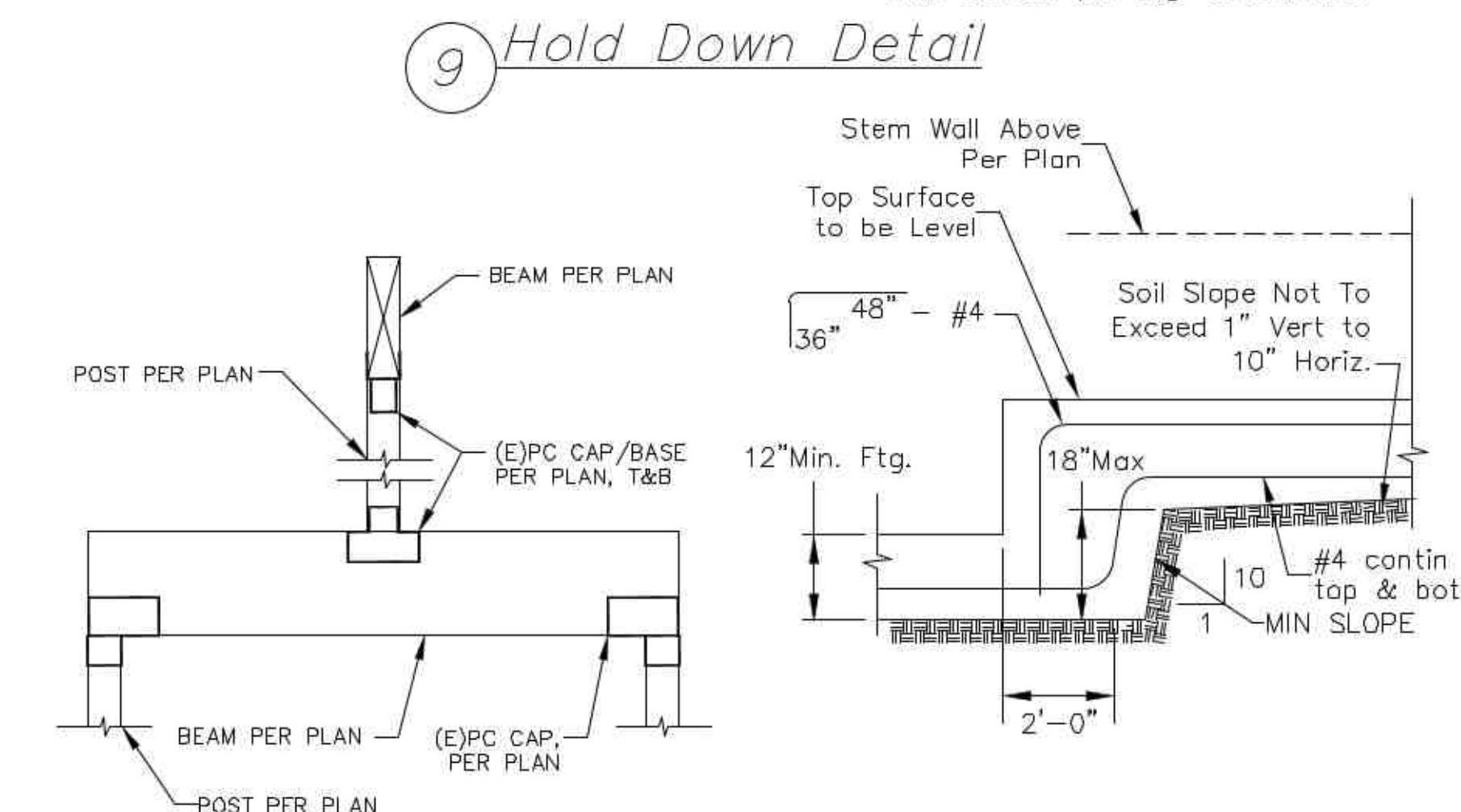


9 Hold Down Detail

SIMPSON HDU	SIMPSON ANCHOR	EMBEDMENT d _e	FOOTING WIDTH	SIDE MEMBER	CAPACITY (lbs.)
HOU2	PAB5	4"	12"	4x4	3075
HOU4	PAB5	6"	18"	4x4	4565
HOU5	PAB5	6"	18"	4x4	5645
HOU8	PAB7	9"	27"	4x6	7870

- Notes:
- SEE SIMPSON CATALOG FOR OTHER APPLICATIONS.
 - ANCHOR BOLT TO BE INSTALLED PER MFG. INSTRUCTIONS
 - MIN. 2500psi CONCRETE

Mis-Placed Anchor Bolts may be accommodated by adding CNW Coupler and All-Thread of equal size to Anchor Bolt. Hold-Down can then be placed up the stud a maximum of 1/3 the end-stud height. All-thread may not exceed 10 Deg. from vertical. This does not remove AB & Washer to Sill plate, or AB edge distance requirements of the CBC. This is only allowed for Hold-Downs whose load is less than 5,000lb. per Engr calculations.



10 Post and Beam Detail

Note: Use where post is not within wall UON.

11 Footing Step

Ref. CBC 1809.3

Concrete

- Structural concrete shall attain 28 day compressive strength $f'_c = 2500\text{psi}$
- Concrete mix design shall be prepared by an independent qualified laboratory. Selection of concrete mix proportions shall be per 2019 CBC.
- section 1905.2 Fly ash may be used as a direct replacement of cement by 20% Fly ash shall have a mercury content better than 11 ppb, nor be from plants burning, hazardous, municipal solid or Medical waste. (consistent with CHFS Guidelines.)
- Cement shall conform to ASTM C-150-07 type I or II.
- Concrete aggregates shall conform to ASTM C-33-07. Aggregates for lightweight concrete shall conform to ASTM C-330-05.
- Reinforcing steel to be welded shall conform to ASTM A706.
- Reinforcing steel shall conform to ASTM A615 Grade 40 for #3 and #4 bars and Grade 60 for #5 and larger, or Grade 60 for Seismic D & E Zones. Wire fabric shall conform to ASTM A-82.
- Dimensions shown for location of reinforcing are to the face of main bars and denote clear coverage. Concrete coverage shall be as follows: Concrete deposited against ground (except slabs) - 3". Concrete exposed to earth or weather - 1-1/2". Slabs (on ground) - 1-1/2".
- Splices in continuous reinforcement shall be 48 bar diameters and splices in adjacent bars shall be not less than 5'-0" apart. Splice continuous bars in spandrels, grade beams, etc., as follows: Top bars at mid-span; Bottom bars at centerline at support, unless noted otherwise otherwise. Splices in w/f shall be 1 1/2 meshes wide.
- Construction joints shall be made rough and all laitance removed from the surface. Concrete may be roughened by chipping the entire surface, sand blasting or raking the surface to produce 1/4" deep deformations.
- Remove all debris from forms before casting any concrete.
- Reinforcing, dowels, bolts, sleeves, etc., to be embedded in concrete shall be tied securely in position before placing concrete.
- Provide 2-#4x4'-0" diagonal reinforcing at mid-depth of slab at all reentrant corners typical.
- Vapor barrier is to be placed under interior slabs and above the clean/crushed rock (class 2 aggregate) and is to conform with the requirements of ASTM E 1745 Class A, with a water vapor transmission rate less than or equal to 0.01 perms (such as 15-mil thick "Stego Wrap Class A") should be used. The vapor barrier should be placed directly below the concrete slab. Sand above the vapor barrier is not permitted. The vapor barrier should be installed in accordance with ASTM E1643. All seams and penetrations of the vapor barrier should be sealed in accordance with manufacturer's recommendations.

Abbreviations

AB.....	anchor bolt	LVL.....	laminated veneer lumber
btwn.....	between	LW.....	light weight
cc.....	center to center	MI.....	malleable iron
CB.....	counter bore depth	MFG.....	manufacturer
CJ.....	ceiling joist	(N).....	new
CLR.....	clear	NTS.....	not to scale
CONC.....	concrete	PAF.....	power acutated fastener
CONT.....	continuous		(PDPAW 250 @ 24" oc U.N.O.)
CP.....	complete penetration	PTDF.....	pressure treated douglas fir
CSK.....	counter sink	RW.....	redwood
CTJ.....	control joint	WS.....	wood screw
DF.....	Douglas Fir	SPS.....	structural plywood sheathing
DL.....	dead load	stftr.....	stiffener
(e).....	existing	stgdr.....	staggered
EXP.....	expansion joint	T&B.....	top & bottom
EN.....	edge nailing	T&G.....	top & groove
FB.....	face of block	TN.....	toe nail
FC.....	face of concrete	tof.....	top of framing
FF.....	finish floor	uno.....	unless noted otherwise
FLR.....	floor	w/f.....	wire fabric
FS.....	face of stud	w/o.....	without
FTG.....	footing	WWF.....	welded wire fabric
GA.....	gauge		centerline
GLB.....	glued-laminated beam		plate
HDR.....	header	#.....	number or pounds
HSB.....	high strength bolt (A-325)	s.....	square
HT.....	height	Ø.....	round or diameter
JH.....	joist hanger (Simpson)		continuous wood in section
JST.....	joist		wood blocking in section
LL.....	live load		
LS.....	lag screw		end of wood piece

Nailing Schedule

All nails for structural work shall be common wire nails conforming to the following minimum sizes:

8d	0.131" dia x 2-1/2"
10d	0.148" dia x 3"
10d shorts	0.148" dia x 1-5/8" plus thickness of SP.
16d	0.182" dia x 3-1/2" (U.O.N)
20d	0.192" dia x 4"

Holes shall be sub-drilled where necessary to prevent splitting. Nailing not noted below or on plans shall be a minimum of two nails at each contact. 8d nails for 1" material and 16d nails for 2" material.

- Joists to sill or girder, toenail ----- 3-8d
- Bridging to joists, toenail each end ----- 2-8d
- 1"x6" subfloor or less to each joist, face nail ----- 2-8d
- Wider than 1"x6" subfloor to each joist, face nail ----- 3-8d
- 2" subfloor to joist or girder, blind & face nail ----- 2-16d
- Sole plate to joist or blocking, typical face nail ----- 16d (3.5"x0.135") @ 16" o.c.
- Sole plate to joist or blocking, at braced wall panel ----- 3-16d (3.5"x0.135") per 16" o.c.
- Top plate to stud, and nail ----- 2-16d
- Stud to side plate ----- 4-8d, toenail or 2-16d, end nail
- Double studs, face nail ----- 16d (3.5"x0.135") @ 24" o.c.
- Double top plates, typical face nail ----- 16d (3.5"x0.135") @ 16" o.c.
- Double top plates, top splices, uno ----- 3-16d
- Blocking between joists or rafters to top plate, toenail ----- 3-8d
- Rim joist to top plate, toenail ----- 8d @ 8" o.c.
- Top plates, laps and intersection, face nail ----- 2-16d
- Continuous header, two pieces, toenail ----- 16d @ 16" o.c. along edge
- Ceiling joists to plate, toenail ----- 3-8d
- Continuous header to stud, toenail ----- 4-8d
- Ceiling joists, laps over partitions, face nail ----- 3-16d
- Ceiling joists to parallel rafters, face nail ----- 6-16d
- Rafter to plate, toenail ----- 2-8d
- 1" brace to each stud & plate, face nail ----- 2-8d
- 1"x8" sheathing or less to each bearing, face nail ----- 2-8d
- Wider than 1"x8" sheathing to each bearing, face nail ----- 3-8d
- Built up corner studs ----- 16d @ 24" o.c.
- Built up girder & beams ----- 20d @ 32" o.c. face nail at top & bottom staggered on opposite sides or 2-20d face nail at ends & at each splice
- 2" planks ----- 16d at each bearing
- Collar Tie to Rafter, face nail ----- 3 - 10d
- Jack Rafter to Hip ----- 3-10d toe nail or 2 16d face nail
- Rafter to 2x ridge beam ----- 2-16d toe nail or 2 16d face nail
- Joist to Band Joist, face nail ----- 3-16d
- Ledge Strip, face nail ----- 3-16d
- Wood structural panels ----- 3-16d
- Subfloor, roof & wall sheathing to framing ----- 8d
- 1/2" and less ----- 8d
- 19/32" - 3/4" ----- 8d
- 7/8" - 1" ----- 8d
- 1-1/8" - 1-1/4" ----- 10d
- Combination subfloor underlayment to framing ----- 8d
- 3/4" - 1" ----- 8d
- 1-1/8" - 1-1/4" ----- 10d
- Panel siding to framing ----- 6d
- 1/2" or less ----- 6d
- 5/8" ----- 8d

Nails spaced @ 6" o.c. at edges, 12" o.c. @ intermediate supports, except if all wall supports where Spacing are 48" or more. For Siding of braced wall panels or shear walls, see plan.

SIERRA STRUCTURAL DESIGN

16180 S. ROCKY RD
MEADOW VISTA, CA 92022
mulkins@sierrawire.com
(530) 878-8903

REVIEWED
FOR
CODE COMPLIANCE

Nov 05, 2021

INTERVEST CONSULTING GROUP

REV	DATE	NAME
1		
2		
3		
4		



DF Pool Bathroom
TYPICAL STRUCTURAL
1045 Mattel Drive
Dutch Flat, Ca 95714

JOB # 20-97

DATE 10-15-20

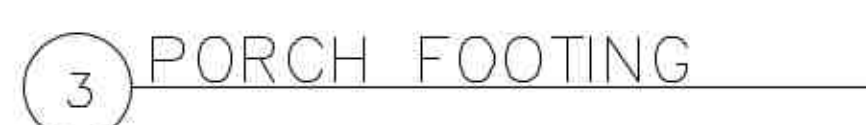
SCALE N.T.S.

BY SM

SHT # S-1

TYPICAL DETAILS AND NOTES

SPECIFIC DETAILS AND NOTES ON OTHER SHEETS SHALL PREVAIL OVER TYPICAL DETAILS AND NOTES



SHEAR NOTES

1. SEE DETAILS 9/S-1 FOR TYPICAL HOLDDOWN INSTALLATION INFORMATION.
2. SHEATH ALL EXTERIOR SHEAR WALLS W/ 3/8" OSB W/ 8D @ 6"OC EDGE AND 12"OC FIELD NAILING U.O.N.
3. SEE SHEAR WALL AND BRACED WALL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
4. WHERE SHEATHING IS APPLIED TO BOTH FACES OF A SHEAR WALL, USE 3X MINIMUM MEMBERS AT ALL FRAMING MEMBERS RE-CEIVING EDGE NAILING FROM ABUTTING PANEL EDGES AND AT ALL SILL PLATES.
5. ALL HARDWARE SPECIFIED SHALL BE SIMPSON
6. STRONG-TIE AND SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.
7. SEE DETAIL 5/S1 FOR FRAMING OF ANY OPENING IN SHEAR WALL.

SHEAR WALL SCHEDULE

Mk	SHEATHING	END STUDS	EDGE NAILING	ANCHOR BOLTS SILL PLATE	ROOF SHEAR TRANSFER	BOTT. PLATE SHEAR TXFR	CAPACITY (wind)
A	3/8" SHEATHING Struc. Ply.	2X MIN	8D @ 6"OC	5/8" DIA @ 36"OC 2X SILL PLATE	H1 @ 24"OC	16d @ 4"OC	307 #/ft

- NOTES:
1. See plans for location and details for application.
2. Values are for panel edges applied directly to framing. All edges must be supported or blocked per sheet S1.
3. Maximum wall stud spacing is 24"oc.
4. Simpson THD62800 may be used in-lieu of 5/8" Anchor Bolts. Follow Manufacturers Instructions.
5. Where Type A is called-out, use A34 @ 36" OC for Rim to Sill txfr.
6. For nail or staple requirements see SDPWS Table 4.3a.

HOLDDOWN SCHEDULE

ID	DESCRIPTION	MAX. CAP.
27	SIMPSON MST27 STRAP, 30-16d NAILS TIE TOP PLATES SPLICES, WHERE PRESENT, ALONG LINES A & B	3700#

SOLAR ROOF LOADS:

THE EQUIPMENT (PV PANELS) ELIMINATES THE PROBABILITY OF PEOPLE WALKING ON THE ROOF WITHIN THE EQUIPMENT FOOTPRINT THEREBY EFFECTIVELY ELIMINATING THE LIVE LOAD IN THE AREA OF THE EQUIPMENT. SINCE THE DESIGN LIVE LOAD UNDER 2019 CBC FOR A ROOF IS 20 PSF AND THE EQUIPMENT WEIGHT OF APPROX. 3PSF IT IS MY PROFESSIONAL OPINION THAT THE EXISTING ROOF SYSTEM, DESIGNED FOR A MINIMUM OF 20 PSF LIVE LOAD CAN HANDLE THE ADDITIONAL DEAD LOAD OF APPROX 3 PSF. SOLAR MOUNTING DESIGN BY OTHERS. LOADS MUST BE DISTRIBUTED ACROSS MEMBERS.

ROOF SHEATHING NOTE

1. 1/2" CDX PLYWOOD SHEETING OR 15/32" OSB SHEETING.
2. ALIGN SHEETING WITH LONG EDGE PERPENDICULAR TO TRUSS/RAFTER.
3. NAIL ALL SUPPORTED EDGES & DRAG TRUSSES WITH 8d COMMON @ 6" O.C., NAIL FIELD WITH 8d COMMON @ 12" O.C. (PLYWOOD CLIPS @ MID-SPAN ARE OPTIONAL)
4. 1/8" MIN. GAP BETWEEN PLYWOOD IS REQUIRED. SEE TABLE R503.2.1.1(1) OF 2019 CRC. SHEATHING PATTERN TO BE ALTERNATING AND OPPOSING TO SUPPORT MEMBERS U.N.O.
5. BEAM MEMBERS ARE CALLED-OUT AS MINIMUM SIZE & STRENGTH. CONTRACTOR MAY INCREASE BOTH AS DESIRED.

ROOF FRAMING PLAN NOTES

1. SEE SHEAR PLAN OR FLOOR PLAN FOR SHEAR PANEL LOCATIONS.
2. SHEATH ALL EXTERIOR SHEAR WALLS W/ 3/8" OSB WITH 8D @ 6"OC EDGE AND 8D @ 12"OC FIELD NAILING MIN. SEE SHEAR WALL AND BRACED PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
3. ALL HEADERS SHALL BE PER TABLE AT 1/S1, UON.
4. ALL FRAMING SHALL BE INSTALLED IN COMPLIANCE w/ 2019 CBC PROVISIONS.
5. ALL HARDWARE SPECIFIED SHALL BE SIMPSON STRONG-TIE AND SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.
6. ALL BEAMS AND HEADERS SHALL BE SUPPORTED WITH FULL BEARING. USE DF-L NO. 2 SUPPORTS, UON.
7. ALL DOUBLE TOP PLATES OF BEARING WALLS SHALL BE #2 DF-L. FOR DESIGNATED SHEAR WALL LINES, LAP SPLICES SHALL BE 48" W/12-16D OR CSC16 X 42" STRAP, U.N.O.
8. BEAM MEMBERS ARE CALLED-OUT AS MINIMUM SIZE & STRENGTH. CONTRACTOR MAY INCREASE BOTH AS DESIRED.
9. TRUSSES SHALL NOT BE CUT, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT APPROVAL OF ENGINEER.

Structural Steel

1. Fabrication, erection and materials shall conform with the AISC specification for the design, fabrication, and erection of structural steel for building and uniform building code, latest edition.
2. Structural steel rolled shaped and plates shall conform with ASTM A-36 or A562 GRD. 50 as noted.
3. Steel pipe shall conform to ASTM A-53, Types E of S, grade B.
4. Structural tubing shall conform to ASTM A-500, grade B.
5. Welding shall be done by the electric arc process in accordance with American Welding Society standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All All exposed welds shall be ground.
6. All structural steel shall be erected plumb and true to line. Temporay bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure.
7. n/a
8. Bolted connections shall consist of unfinished bolts conforming to ASTM A-307 unless noted otherwise. Where high strength bolts are indicated, bolts conforming to ASTM A325-X shall be provided. Bolts shall be of sufficient length to exclude threads from bearing.
9. Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus 1/16". Use standard AISC gage and pitch for bolts except as noted otherwise.
10. Holes for bolts shall be of the same nominal bolt diameter plus 3/16" unless noted otherwise.
11. All structural steel shall receive minimum of one shop coat of red primer paint. Do not paint areas to be field welded, to receive friction type high strength bolts, or to be embedded in concrete. Provide additional painting as noted in the specifications.

FOUNDATION NOTES

1. ALL REINFORCEMENT SHALL BE GRADE 60 UON.
2. ALL REINFORCEMENT SHALL BE PLACED IN CONFORMANCE W/ ACI REQUIREMENTS.
3. PROVIDE 1-#4 REBAR AT TOP & BOTTOM OF ALL FOOTINGS, 2 BARS MINIMUM.
4. USE 2500 PSI CONCRETE, 5 SACK MIX, 1 1/2" MAX AGGREGATE SIZE.
5. PROVIDE 5/8" DIA ANCHOR BOLTS, 7" EMBEDDMENT @ 6'-0"OC MAXIMUM AT ALL PERIMETER WALLS W/3"x3"x0.229" PLATE WASHERS, UON. MIN 1 BOLT BET. 4" & 12" OF EA. END OF SILL PLATE.
6. FOOTINGS SHALL EXTEND A MINIMUM OF 12" INTO FIRM DRY UNDISTURBED SOIL.
7. ALL FRAMING LUMBER IN DIRECT CONTACT W/CONCRETE SHALL BE PRESSURE TREATED DF#2.
8. ALL HARDWARE SHALL BE SIMPSON STRONG-TIE AND SHALL BE IN PLACE PRIOR TO FOUNDATION INSPECTION. SEE TYP. STRUCTURAL NOTES, OR PLAN SPECIFIED DETAIL SHEET FOR HOLDDOWN INSTALLATION DETAILS.
9. SEE SHEAR PLANS FOR SHEAR PANEL INFORMATION.
10. HOLD DOWN ANCHORS SHALL BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION AND ALL BOLTS SHALL BE RETIGHTENED PRIOR TO FINAL COVERING OF WALLS.
11. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDENT-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEED, STAINLESS STEEL, SILICON BRONZE OR COPPER (CBC 2340.9.5)

CONTRACTOR:

FIELD VERIFY ALL DIMENSIONS AND CONFIRM THAT STRUCTURAL MEMBERS AND CONNECTORS ADHERE TO CALIFORNIA BUILDING CODE SPAN TABLES AND SELECTION/INSTALLATION SPECIFICATIONS. CONTACT DESIGNER/ENGINEER IF ANY DISCREPANCIES OCCUR

SOIL BEARING CAPACITY = 1,500 PSF.

ALL CONCRETE SLABS TO BE (u.n.o.):

- 4" THICK OF 2500PSI CONCRETE OVER,
- 6"x6", #10 MESH WELDED WIRE FABRIC OR #3 BAR @ 18"OC EA. WAY OVER,
- 10-15 MIL "STEGO WRAP" VAPOR BARRIER & CAPILLARY BREAK, SEE FOUNDATION NOTE #4, (joints lapped not less than 6") SEE CONCRETE NOTE #13
- 4" OF 1/2" OR LARGER OF CALTRANS CLASS 2 AGGREGATE BASE (AB) COMPACTED TO 95% MIN.

DESIGN CRITERIA

OCCUPANCY CATEGORY	II
IMPORTANCE FACTOR	1.0
ROOF DEAD LOAD	10psf
ROOF LIVE LOAD	18psf
SNOW LOAD (Ps)	33.3psf
FLOOR LIVE LOAD	40psf
WALL DEAD LOAD	10psf
LATTITUDE	39.211
LONGITURDE	-120.83
SS	.6697
S1	.2487
R	6.5
CS	.0917
SITE CLASS	D
SEISMIC BASE SHEAR	0.74K
SDC	D
BASIC WIND SPEED	95mph
WIND CATEGORY	II
WIND EXPOSURE	C

SIERRA
STRUCTURAL
DESIGN

16180 S. ROCKY RD
MEADOW VISTA, CA 95722
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(530) 878-8903

REVIEWED

FOR
CODE COMPLIANCE

Nov 05, 2021

INTERWEST CONSULTING GROUP

REV	DATE	NAME
△		
△		
△		
△		



DF Pool Bathroom

1045 Mattel Drive
Dutch Flat, Ca 95714

GENERAL NOTES

JOB # 20-97

DATE 10-15-20

SCALE N.T.S.

BY SM

SHT #

S-3

21-03279